

Application No. 10/698,361
Amendment dated October 28, 2005
Amendment After Final Action

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AMENDMENTS TO THE CLAIMS

1. (Canceled)

2. (Currently amended) A plate for a heat exchanger constituted by a stack of plates, each plate comprising a central zone in which it presents adjacent first corrugations directed generally along respective alignment axes in the longitudinal direction of the plate and comprising successive segments that are substantially rectilinear and oblique, being successively in a first sense and in a second sense relative to their longitudinal alignment axis, the plate further including at least one set of successive segments of second corrugations extending along respective alignment axes of generally transverse direction and intersecting the set of longitudinal axes along which the first corrugations are disposed, the segments of the second corrugations being angular or in alignment to one another and the transverse alignment axes of substantially rectilinear segments of the second corrugations making an angle lying in the range 45° to 90° with the longitudinal axes of the first corrugations; A heat exchanger plate according to claim 1, wherein the second corrugations of generally transverse direction intersect the first corrugations in zones of the rectilinear segments of the first corrugations that are situated between the ends of said segments.

3. (Currently amended) A plate for a heat exchanger constituted by a stack of plates, each plate comprising a central zone in which it presents adjacent first corrugations directed generally along respective alignment axes in the longitudinal direction of the plate and comprising successive segments that are substantially rectilinear and oblique, being successively in a first sense and in a second sense relative to their longitudinal alignment axis, the plate further including at least one set of successive segments of second corrugations extending along respective alignment axes of generally transverse direction and intersecting the set of longitudinal axes along which the first corrugations are disposed, the segments of the second corrugations being angular or in alignment to one another and the transverse alignment axes of substantially rectilinear segments of the second corrugations making an angle lying in the range 45° to 90° with the longitudinal axes of the first corrugations; A heat exchanger plate according to claim 1, wherein the second

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corrugations intersect the first corrugations in junction zones between successive segments of the first corrugations.

4. (Currently amended) A plate for a heat exchanger constituted by a stack of plates, each plate comprising a central zone in which it presents adjacent first corrugations directed generally along respective alignment axes in the longitudinal direction of the plate and comprising successive segments that are substantially rectilinear and oblique, being successively in a first sense and in a second sense relative to their longitudinal alignment axis, the plate further including at least one set of successive segments of second corrugations extending along respective alignment axes of generally transverse direction and intersecting the set of longitudinal axes along which the first corrugations are disposed, the segments of the second corrugations being angular or in alignment to one another and the transverse alignment axes of substantially rectilinear segments of the second corrugations making an angle lying in the range 45° to 90° with the longitudinal axes of the first corrugations; ~~A heat exchanger plate according to claim 1,~~ wherein the second corrugations are discontinuous and comprise successive different portions in the transverse direction separated by zones in which the heat exchanger plate does not have second corrugations.

5. (Currently amended) A heat exchanger plate according to claim 2 ~~[[1]]~~, including at least two deformation zones each constituted by at least one set of second corrugation segments.

6. (Original) A heat exchanger plate according to claim 5, wherein each of the deformation zones has at least two adjacent second corrugations extending in the transverse direction of the heat exchanger plate.

7. (Original) A heat exchanger plate according to claim 6, wherein the heat exchanger plate includes a plurality of deformation zones disposed successively in the longitudinal direction of the heat exchanger plate, with constant spacing between pairs of successive deformation zones.

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8. (Original) A heat exchanger plate according to claim 6, including a plurality of deformation zones distributed along the longitudinal direction of the heat exchanger plate in such a manner that successive deformation zones are spaced apart in the longitudinal direction by varying distances along the length of the heat exchanger plate.

9. (Currently amended) A heat exchanger bundle constituted by a stack of plates according to claim 2 ~~[[1]]~~.

10. (Original) A heat exchanger bundle according to claim 9, wherein each of the plates of the heat exchanger bundle has at least two deformation zones disposed in positions such that the deformation zones in the longitudinal direction of two successive plates in the stack are not superposed in the stack of plates of the set of plates.